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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/618,109

07/11/2003

Yves Le Brech

03-016-US

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11/02/2006

RATNERPRESTIA

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VALLEY FORGE, PA 19482-0980

EXAMINER

SALVATORE, LYNDIA

ART UNIT

PAPER NUMBER

1771

DATE MAILED: 11/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/618,109

Applicant(s)

LE BRECH ET AL.

Examiner

Lynda M. Salvatore

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 August 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-7 and 11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-7 and 11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 9/5/06
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's amendment and accompanying remarks filed 8/9/06 have been fully considered and entered. Claims 1 and 3 have been amended and claim 2 has been canceled as requested. Applicant's amendment to claim 1 is found sufficient to overcome the anticipation and obviousness rejections set forth in sections 3-6 of the last Office Action dated 12/16/05. Specifically, the prior art of Nakagawa et al., US 2003/0019598 A1 and Lin, US 2003/0207639 A1 fail to teach an adhesion promoter consisting of a polyolefin grafted with functional maleic anhydride groups. As such, the rejections of claims 1,3-7 and 11 are hereby withdrawn. However, Applicant's amendments are not found patently distinguishable and upon further consideration of Applicant's amendments, the following necessitated new ground of rejection is set forth herein below.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 9/5/06 was filed after the mailing date of the Office Action on 12/16/05. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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4. Claims 1,3-7 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakagawa et al., US 2003/0019598 A1 in view of Sawyer et al., US 5,082,899.

The published patent application issued to Nakagawa et al., teach a filter laminate comprising a heat sealing layer comprising a mixture of synthetic pulp and synthetic short fiber. Said heat sealing layer is further joined to a substrate layer comprising natural fiber (abstract and section 0080-0081). Nakagawa et al., teach a synthetic pulp short fiber formed from a polyolefin based mixture of (a) an ethylene- α,β -unsaturated carboxylic acid copolymer which can formed into a pulp like material having good heat-sealability and hot tack and (b) polyethylene resin (Sections 0050-0066). Suitable synthetic fibers include polyolefin fibers such as those derived from polyethylene or polypropylene as well as polyester and polyamide (Section 0075). With specific regard to the recited adhesion promoter limitation, it is the position of the Examiner that the synthetic pulp resin composition comprising a mixture of (a) and (b) meets said limitation. Specifically, the Examiner considers the teaching of synthetic pulp fibers formed from a resin composition having good heat sealability and hot tack sufficient to provide the necessary adhesion promoting properties to the claimed heat sealable ply comprising synthetic fibers. With regard to the intended use recited by Applicant in claim 11, Nakagawa et al., teach that the laminate is suitable to form tea bags (Abstract).

With regard to claim 4, recall, Nakagawa et al., taught the use of polyester, polypropylene or polyethylene synthetic fibers in addition to the synthetic pulp fibers (Nakagawa et al., Section 0075).

With regard to claim 5, Nakagawa et al., teach a substrate comprising natural fibers such as abaca pulp (Section 0081). Said substrate layer is formed as a wet web having air permeability

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and strength (Section 0081 and Section 0084). As such, it is expected that the substrate layer of Nakagawa et al., would have the desired wet strength.

With regard to claim 6, Nakagawa et al., teach that the substrate layer has a basis weight ranging from 10-50 g/m² (Section 0081). With regard to the claimed air permeability properties, Nakagawa et al., fails to teach the specific air permeability properties of the substrate, but does suggest that the substrate layer is air permeable based on the selection of natural fibers (e.g., abaca pulp). As such, it is the position of the Examiner that the claimed air permeability properties would inherently be present in the air permeable substrate layer taught by Nakagawa et al. Applicant is invited to evidence otherwise.

With regard to claim 7, Nakagawa et al., teach a heat sealable layer having a basis weight ranging from 1-20 g/m² (Section 0077).

Nakagawa et al., fails to teach the claimed polyolefin grafted with maleic anhydride groups adhesion promoter, however, the patent issued to Sawyer et al., teach maleic anhydride grafted polyolefin fibers (title). Sawyer et al., teach forming biconstituent fibers comprising linear low density polyethylene and high density polyethylene grafted with maleic anhydride (abstract). With regard to the amount of adhesion promoter set forth in claim 3, Sawyer et al., teach employing the high density polyethylene grafted with maleic anhydride groups in an amount ranging from .5-99.5 of the biconstituent blend (column 5, 30-45). Sawyer et al., teach employing the fibers as binder fibers (column 7, 46-55). With specific regard to the consisting of language recited in claim 1, it is the position of the Examiner that Sawyer et al., meet this limitation by providing only a polyolefin material grafted with maleic anhydride. The other additives that Sawyer et al., disclose are optional (column 5, 34-45). Sawyer et al., specifically

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teach that the adhesion performance is enhanced due to the grafted maleic groups (column 7, 54-60 and column 8, 9-35).

Therefore, motivated by the desire to provide a heat-sealing layer with improved adhesion, it would have been obvious to one having ordinary skill in the art at the time the invention was made to form the heat sealing layer in the filter laminate of Nakagawa et al., with the binder fibers of Sawyer et al.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynda M. Salvatore whose telephone number is 571-272-1482. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

October 26, 2006

ls

A handwritten signature in black ink, appearing to read "Linda J. Salunk". The signature is written in a cursive, flowing style with a large initial "L".